

METHOD AND APPARATUS FOR AUTOMATED IMAGE CORRECTION FOR DIGITAL IMAGE ACQUISITION

ABSTRACT

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A method and apparatus for automatically correcting colors in digital image space comprises taking an image file of the object using a digital device, such as a digital camera or scanner. One embodiment of the invention involves registering to obtain access to a profiling software. When registered, one obtains a target test sheet and accompanying manuals. The registration itself involves using a password or access code for using the software on the computer. The profiling software checks the image file generated from the printer or the digital camera and compares it to the photograph of the target test sheet under specific lighting conditions. The profiling software specifically checks the submitted object file for orientation, alignment, color intensity, and hue with respect to the target test sheet. When the image file is uploaded, a transformation image algorithm matches colors of the submitted image file with colors of the target test sheet and thereby creates a color corrected image profile for the submitted image file. Alternatively, the invention may be implemented entirely in an imaging device, such as a digital camera.

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